

SEQUENCE LISTING

<110> Lovenberg, Timothy
 Liu, Changlu
 <120> DNAs Encoding Mammalian Histamine Receptor Of The H4 Subtype
 <130> PRD-0032
 <150> 09/790,849
 <151> 2001-02-22
 <150> 60/208,260
 <151> 2000-05-31
 <160> 27
 <170> PatentIn version 3.2
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 <213> Homo sapiens

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Asn Ala Leu Val Ile Leu Ala Phe Val Val Asp Lys Asn Leu Arg His
35 40 45

Arg Ser Ser Tyr Phe Phe Leu Asn Leu Ala Ile Ser Asp Phe Phe Val
50 55 60

Gly Val Ile Ser Ile Pro Leu Tyr Ile Pro His Thr Leu Phe Glu Trp
65 70 75 80

Asp Phe Gly Lys Glu Ile Cys Val Phe Trp Leu Thr Thr Asp Tyr Leu
85 90 95

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100 105 110

Tyr Leu Ser Val Ser Asn Ala Val Ser Tyr Arg Thr Gln His Thr Gly
115 120 125

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130 135 140

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180 185 190

Phe Asn Met Asn Ile Tyr Trp Ser Leu Trp Lys Arg Asp His Leu Ser
195 200 205

Arg Cys Gln Ser His Pro Gly Leu Thr Ala Val Ser Ser Asn Ile Cys
210 215 220

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245 250 255

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260 265 270

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 Val Asn Pro Leu Leu Tyr Pro Leu Cys His Lys Arg Phe Gln Lys Ala
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 <212> DNA
 <213> *Cavia porcellus*

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 <213> *Mus musculus*

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 35 40 45

Arg Ser Asn Tyr Phe Phe Leu Asn Leu Ala Ile Ser Asp Phe Leu Val
 50 55 60

Gly Leu Ile Ser Ile Pro Leu Tyr Ile Pro His Val Leu Phe Asn Trp
 65 70 75 80

Asn Phe Gly Ser Gly Ile Cys Met Phe Trp Leu Ile Thr Asp Tyr Leu
 85 90 95

Leu Cys Thr Ala Ser Val Tyr Asn Ile Val Leu Ile Ser Tyr Asp Arg
 100 105 110

Tyr Gln Ser Val Ser Asn Ala Val Ser Tyr Arg Ala Gln His Thr Gly
 115 120 125

Ile Met Lys Ile Val Ala Gln Met Val Ala Val Trp Ile Leu Ala Phe
 130 135 140

Leu Val Asn Gly Pro Met Ile Leu Ala Ser Asp Ser Trp Lys Asn Ser
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Thr Asn Thr Lys Asp Cys Glu Pro Gly Phe Val Thr Glu Trp Tyr Ile
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Leu Thr Ile Thr Met Leu Leu Glu Phe Leu Leu Pro Val Ile Ser Val
 180 185 190

Ala Tyr Phe Asn Val Gln Ile Tyr Trp Ser Leu Trp Lys Arg Arg Ala
 195 200 205

Leu Ser Arg Cys Pro Ser His Ala Gly Phe Ser Thr Thr Ser Ser Ser
 210 215 220

Ala Ser Gly His Leu His Arg Ala Gly Val Ala Cys Arg Thr Ser Asn
 225 230 235 240

Pro Gly Leu Lys Glu Ser Ala Ala Ser Arg His Ser Glu Ser Pro Arg
 245 250 255

Arg Lys Ser Ser Ile Leu Val Ser Leu Arg Thr His Met Asn Ser Ser
 260 265 270

Ile Thr Ala Phe Lys Val Gly Ser Phe Trp Arg Ser Glu Ser Ala Ala
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Tyr Cys Leu Phe Thr Ile Val Leu Ser Thr Tyr Pro Arg Thr Glu Arg

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Cys Leu Ser His Pro Val Leu Pro Ser Asp Ser Ser Ser Ser Asp His 210 215 220		
Gly His Ser Cys Arg Gln Asp Pro Asp Ser Arg Ala Thr Leu Pro Ala 225 230 235 240		
Arg Lys Glu Thr Thr Ala Ser Leu Gly Ser Asp Lys Ser Arg Arg Lys 245 250 255		
Ser Ser Leu Leu Pro Ser Ile Arg Ala Tyr Lys Asn Ser Asn Val Ile 260 265 270		
Ala Ser Lys Met Gly Phe Leu Ser His Ser Asp Ser Leu Ala Leu Gln 275 280 285		
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Val Asn Pro Phe Leu Tyr Pro Leu Cys His Lys Arg Phe Gln Lys Ala
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<210> 14
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 <400> 23
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